mog30012 TaskID#5781 cei Wayne

# ASH GROVE CEMENT COMPANY ce: wagne

WESTERN REGION P.O. Box 38069 Leamington, Utah 84638 435-867-1212

December 20, 2013

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DEC 2 0 2013

DIV. OF OIL, GAS & MINING

Paul B. Baker Mining Program Manager Utah Division of Oil, Gas and Mining 1594 West North Temple Salt Lake City, UT 84116

Subject: Evaluation of Reclamation Surety,

Nielson Sandstone Mine,

M/023/0012

Dear Mr. Baker:

Pursuant to the request in your letter dated October 29, 2013, we are submitting herewith an updated estimate of the reclamation surety required for the Nielson Sandston Mine located in Juab County. This estimate has been prepared on the Division worksheets using standard unit costs obtained primarily from RS Means Heavy Construction Cost Data (2013).

Once the updated cost estimate is approved, it is our intent to submit this as a clean-copy amendment to Section 113 of the Notice of Intention to Conduct Large Mining Operations. Please contact Josh Nelson of our staff (435-857-1212) or Richard White of EarthFax Engineering (801-561-1555) if you have any questions regarding this submittal.

Sincerely,

Ash Grove Cement Company

R. Smith

Ron Smith Plant Manager

**Enclosure** 

#### SECTION 113 - SURETY

#### 113.1 INTENT TO PROVIDE SURETY

Ash Grove has posted a surety to cover the required reclamation of the existing facilities. Once the plans for the expanded facilities are approved, Ash Grove will post a surety to cover the reclamation of the expanded facilities.

#### 113.2 SURETY COORDINATION WITH OTHER AGENCIES

No other sureties cover this property.

#### 113.3 SURETY AMOUNT

The amount of the surety is based on the costs presented in Tables 113-1 and 113-2. Table 113-1a and b presents the estimated costs for reclamation of Pit 1. Table 113-1a addresses the reclamation of the Pit1 highwalls and slope reclamation. Reclamation of the Pit1 floor and removal of the temporary storage areas is covered in Table 113-1b. Table 113-2 presents the estimated costs for reclamation of Pit 2Appendix 113-1.

#### 113.4 SURETY TYPE

A bond has been posted to cover the required reclamation costs for the existing facilities. Once the plans for the expanded facilities are approved, Ash Grove will post a surety to cover the reclamation of the expanded facilities.

#### 113.5 SURETY RELEASE

Following the completion of the required reclamation activities for each area of the mine property, Ash Grove will monitor the reclaimed areas. As these reclaimed areas meet the criteria for adequate reclamation, Ash Grove will petition the Division for release the surety for that portion of the operation.

### 113.6 SURETY ADJUSTMENTS AND REVISIONS

In accordance with existing DOGM Mining and Reclamation Regulations, the surety agreement will be reviewed every five years.

## APPENDIX 113-1

RECLAMATION SURETY ESTIMATE

## **Bonding Calculations**

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Di	rect	Costs	

Subtotal Demolition and Removal Subtotal Backfilling and Grading Subtotal Revegetation Direct Costs	\$155,813.00 \$489,131.15 \$341,927.00 \$986,871.15	
Indirect Costs Mob/Demob Contingency Engineering Redesign Main Office Expense Project Management Fee Subtotal Indirect Costs	\$98,687.00 \$49,344.00 \$24,672.00 \$67,107.00 \$24,672.00 \$264,482.00	
Total Cost 2013	\$1,251,353.15	
Number of years Escalation factor Escalation	\$31,598.00	5 0.005
Reclamation Cost Escalated	\$1,282,951.15	
Bond Amount (rounded to nearest \$1,000) 2013 Dollars	\$1,283,000.00	
Posted Bond	\$1,105,500.00	
Difference Between Cost Estimate and Bond Percent Difference	-\$177,500.00	

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Pit 1 Floor		Number	-	-				-				1		-	+		-	-	\$100,623.5
_	Pit 2		-		-	-	-	-	-				_	-	-	_	1	<del>                                     </del>	-	\$55,189.5
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	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Pit 1 Floor	Asphalt					1													
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	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage						1													
1	Transportation Cost Non Steel Truck						1			<b>—</b>										
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel					1														
	Steel's Weight									1										
	Truck's Capacity							_		1										
	Haulage																			
	Transportation Cost Steel Truck				_	1	1	1												1
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	Equipment 's Vol. Demolished				-	-	-		-	-		-	-		-	-	-	-	+	+
	Loading Costs			-	-	-	-	-	-	-			-	_	-		-	-	+	+
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	Concrete Demolition	2 1/2 CY Excavator rental		\$13,900.00	Mo			_	-						-	-	-		5 Mo	\$6,9
	Demolition Cost	Excavator operating cost	154330320	\$109.50	) Hr												-	100	0 Hr	\$10,9
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L	Loading Cost																-	-		-
1	Transportation Cost	16.5 CY truck, 50 mile cycle, 50 mph	312323203114													-			4 LCY	\$56,02
	Disposal Costs	Juab County Landfill 2013 rate		\$100.00	Load													26	7 Load	\$26,7
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	Demolition Cost																			
	Concrete's Vol. Demolished																			
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	Disposal Costs					1														
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	Structure's Demolition Cost																			
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	Truck's Capacity																			
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	Transportation Cost Non Steel Truck																			
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	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																	1		
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	Loading Costs				-	1	-	-	-		-	_	-		_	-	-	+	+	
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	Concrete Demolition	2 1/2 CY Excavator rental	454000000	\$13,900.00	144-	1	-	-	-		-	-	-	-	_	-	-	0.20	5 Mo	\$3,475.00
	Demolition Cost	Excavator operating cost	154330320	\$109.50	INIO	1	-	-	-	1			-	-	-	-	-		D Hr	\$5,475.0
	Concrete's Vol. Demolished	Excavator operating cost	154330320	\$109.50	HI	-	-	-				-	-	-	-	+	-	30	Tol .	\$5,475.0
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	Transportation Cost	16.5 CY truck, 50 mile cycle, 50 mph	312323203114	240.75	1.00	-	-	1	-			-	-		-	+	-	0456	BLCY	\$31,339.5
	Disposal Costs	Juab County Landfill 2013 rate	312323203114			-	-	-	-	-	-	-	-	-	+	+	-	2450	9 Load	
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	Equipment Cost	Hourly Operating Costs	Equipment	Operator's Hourly Wage Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Dis.	Units	Cost
Pit 1 Slope	0031	00313	Overneau	vvage reace	COST	or Eq.	00313	Office	Quartity	Office	rate	Orinto	1111010101		\$281,973.70
Pit 1 Floor															\$86,193.20
Pit 2															\$120,964.25
Total	and an account of			Control of the Control		S. 10 (10 (10 (10 (10 (10 (10 (10 (10 (10						Sales and Market			\$489,131.15

	Equipment Cost	Hourly Operating Costs	Equipment Overhead	Operator's Hourly Wage Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Dis.	Units	Cost
Pit 1 Slope															
Water truck, off highway, 6000 gallons	\$7,125.00									Мо					\$7,125.00
Water truck operator, 1 truck Driver (heavy)							\$56.05	Hr	88	Hr					\$4,932.40
Drilling and blasting, rock, open face, over 1500 CY							\$14.00	BCY	13628	BCY					\$190,792.00
Dozer, crawler, torque converter, diesel 300 HP	\$15,400.00								0.7	Мо					\$10,780.00
Dozer operation cost		\$100.00							105	Hr					\$10,500.00
Off highway rear dump, 100 ton capacity	\$25,400.00								0.3						\$7,620.00
Off highway rear dump operating cost		\$245.80							50	Hr					\$12,290.00
Front end loader, 4WD, articulated frame, 7-9 CY	\$16,200.00								0.3	Мо					\$4,860.00
Front end loader operation cost		\$115.75							50	Hr					\$5,787.50
Excavator, diesel hydraulic, crawler mounted, 4 1/2 CY	\$24,800.00								0.25	Мо					\$6,200.00
Excavator operation cost		\$175.38							40	Hr					\$7,015.20
Topo survey, conventional							\$590.00	Day	1	Day					\$590.00
Foreman outside							\$461.20	Day	22	Day					\$10,146.40
Pickup, 4WD, 3/4 ton	\$660.00									Мо					\$660.00
Pickup operation cost		\$121.60							22	Day					\$2,675.20
Subtotal		15 to \$418 13 13 1 A C							200 564 560 570 57						\$281,973.70

	Equipment Cost	Hourly Operating Costs	Equipment Overhead	Operator's Hourly Wage Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Dis.	Units	Cost
Pit 1 Floor															
Silt fence, polypropylene mesh, 3' high, ideal							\$0.83		550						\$456.5
Silt fence removal, same labor as installation							\$0.58	LF	550	LF					\$319.0
Water truck, off highway, 6000 gallons	\$7,125.00								0.5	Мо					\$3,562.5
Water truck operator, 1 truck Driver (heavy)							\$56.05	Hr	44						\$2,466.2
Dozer, crawler, torque converter, diesel 300 HP	\$15,400.00								0.65						\$10,010.0
Dozer operation cost		\$100.00							105						\$10,500.0
Off highway rear dump, 100 ton capacity	\$25,400.00									Мо					\$10,160.0
Off highway rear dump operating cost		\$245.80							60	Hr					\$14,748.0
Front end loader, 4WD, articulated frame, 7-9 CY	\$16,200.00									Мо					\$6,480.0
Front end loader operation cost		\$115.75							60	Hr					\$6,945.0
Excavator, diesel hydraulic, crawler mounted, 4 1/2 CY	\$24,800.00								0.25	Мо					\$6,200.0
Excavator operation cost		\$175.38							40	Hr					\$7,015.2
Topo survey, conventional							\$590.00	Day	1	Day					\$590.0
Foreman outside							\$461.20	Day	11	Day					\$5,073.2
Pickup, 4WD, 3/4 ton	\$660.00								0.5	Мо					\$330.0
Pickup operation cost		\$121.60							11	Day					\$1,337.6
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	Equipment Cost	Hourly Operating Costs	Equipment Overhead	Operator's Hourly Wage Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Dis.	Units	Cost
Pit 2															
Water truck, off highway, 6000 gallons	\$7,125.00								1	Mo					\$7,125.0
Water truck operator, 1 truck Driver (heavy)							\$56.05	Hr	88	Hr		510			\$4,932.4
CMP steel, 24" Dia. Removal							\$13.70	LF		LF					\$685.0
CMP steel, 48" Dia. Removal							\$20.50	LF	75	LF					\$1,537.5
Excavation, trench, 1'-4' deep, 1/2 CY							\$7.25	BCY	73	BCY					\$529.2
Dozer, crawler, torque converter, diesel 300 HP	\$15,400.00								0.35	Мо					\$5,390.0
Dozer operation cost		\$100.00							60	Hr					\$6,000.0
Off highway rear dump, 100 ton capacity	\$25,400.00								0.6	Мо					\$15,240.0
Off highway rear dump operating cost		\$245.80							130	Hr					\$31,954.0
Front end loader, 4WD, articulated frame, 7-9 CY	\$16,200.00								0.6	Мо					\$9,720.0
Front end loader operation cost		\$115.75							130	Hr					\$15,047.5
Excavator, diesel hydraulic, crawler mounted, 4 1/2 CY	\$24,800.00								0.25	Мо					\$6,200.0
Excavator operation cost		\$175.38							40	Hr					\$7,015.2
Topo survey, conventional							\$590.00	Day	2	Day					\$1,180.0
Foreman outside							\$461.20	Day	11	Day					\$5,073.2
Pickup, 4WD, 3/4 ton	\$660.00								1	Мо					\$660.0
Pickup operation cost		\$121.60							22	Day					\$2,675.2
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										Jan. 1920. 1920. 1920.			and the second second		\$120,964.2

	Equipment Cost	Hourly Operating Costs	Equipment Overhead	Operator's Hourly Wage Rate	Hourly	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Dis.	Units	Cost
Pit 1 Slope			- Crontoda	Tragoritato	0001	51 Eq.	000.0	Ormo	- Carantary		11				\$34,904.00
Pit 1 Floor															\$47,023.00
Pit 1 Floor Pit 2															\$260,000.00
		-													
		-													
otal						State of the second									\$341,927.0

Ref.	Description	Materials	Reference	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
			Number							_						-	-			
	Pit 1 Slope							-	-	-		-		-	-	-	-	9.6	A =	\$12,000.0
	Mechanical Seeding, 215lb/arce		329219130020	\$1,250.00	Ac	-		-	-	-	_	-	-	-		-	-	9.6	MSF	\$19,274.0
	Mulch, hay, 1" depth, power mulcher		329113160350	\$46.00	MSF			-	-	-		-	-	-		-	-	0.15	MOF	\$1,605.0
	Excavator, diesel hydraulic, 2 CY		154330300	\$10,700.00						-		-	-	-	-	-	-	0.15	Hr	\$2,025.0
	Excavator operation cost			\$81.00	Hr			-				-	-	-		-	1-	25	HI	\$2,025.0
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	Mechanical Seeding, 215lb/arce		329219130020	\$1,250,00	Ac					1								13.2	Ac	\$16,500.
	Mulch, hay, 1" depth, power mulcher		329113160350						1		_							573	MSF	\$26,358.
	Excavator, diesel hydraulic, 2 CY		154330300	\$10,700.00	Mo			-	-	-									Mo	\$2,140.
	Excavator operation cost		154555555	\$81.00	Hr	-		<del>                                     </del>	-		_							25	Hr	\$2,025
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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Pit 2						†			1	1	1								
	Mechanical Seeding, 215lb/acre		329219130020	\$1,250.00	Ac		1											75.8	Ac	94,750.00
	Mulch, hay, 1" depth, power mulcher		329113160350	\$46.00															MSF	151,800.00
	Excavator, diesel hydraulic, 2 CY		154330300	\$10,700.00														0.5	Мо	5,350.00
	Excavator operation cost			\$81.00														100	Hr	8,100.00
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